

Appl. No.: 09/740,382  
Amendment Dated July 14, 2005  
Reply to Office Action of May 19, 2005

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**Amendments to the Claims:** This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Currently Amended) A display interface having a group of channels for tuning a television receiver, said display interface comprising:

a channel matrix having n columns and m rows for displaying a plurality of ~~definable~~ channel indicators for at most n x m channels, the channel matrix including entries for both available and unavailable channels, where n and m are positive integers greater than 2, each ~~definable~~ channel indicator corresponding to a respectively different position in the matrix, wherein ~~channels~~ channel indicators corresponding to channels having programs with viewer selected features are highlighted and the channels represented by the channel matrix are one group of channels among a plurality of channel groups;

a channel group indicator, separate from the plurality of ~~definable~~ channel indicators, configured to be selected to switch the channel matrix among the groups of channels to select a current group of channels and to display a ~~channel indicator of a base channel number in for~~ the current group of channels;

a cursor configured to be moved to positions along the rows and columns of the matrix;

a channel status section, separate from the channel matrix, which displays status information, including a channel number and a plurality of program property indicators of a television channel corresponding to the indicator at the position of the cursor on the matrix, wherein the channel status section and the channel matrix are displayed concurrently; and

a channel selector which selects and tunes the channel ~~by adding number equal to a sum of the base channel number and the channel indicator corresponding to the definable channel indicator at the position of the cursor on the matrix.~~

2. (Canceled).

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3. (Original) A display interface in accordance with claim 1, wherein the viewer selected features include a plurality of program types and the display interface further includes means for selecting one of the program types as the viewer selected feature.

4. (Original) A display interface in accordance with claim 3, wherein the program types are predetermined program types.

5. (Original) A display interface in accordance with claim 3, wherein the program types are defined by the viewer.

6. (Original) A display interface in accordance with claim 1, wherein the viewer selected features include at least one program transmission characteristic.

7. (Previously Presented) A display interface in accordance with claim 1, wherein  $n$  and  $m$  equal 10 such that each group of channels includes at most 100 channels.

8. (Currently Amended) A display interface in accordance with claim 1, wherein each definable channel indicator in said channel matrix is color-coded to indicate the status information of the corresponding channel.

9. (Original) A display interface in accordance with claim 1 further including a remote control device, including at least one cursor navigation key for moving the cursor along the rows and columns of the matrix, wherein the channel selector is a further key on the remote control device.

10. (Original) A display interface in accordance with claim 1 further including a voice recognition system that recognizes voiced direction commands to move the cursor along the rows and columns of the matrix and recognizes a voiced selection command to act as the channel selector.

11. (Currently Amended) A user interface method for controlling a television receiver to select television programs that are transmitted through the channels for display, wherein the television receiver is configured to receive  $C$  channels, where  $C$  is an integer, the method comprising the steps of:

displaying a channel matrix having  $n$  columns and  $m$  rows for displaying channel indicators for at most  $n \times m$  channels, the channel matrix including entries for both available

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and unavailable channels, where  $n$  and  $m$  are positive integers greater than 2 and  $n \times m$  is less than  $C$ , each ~~definable~~ channel indicator corresponding to a respectively different position in the matrix, wherein channel indicators corresponding to channels having programs with viewer selected features are high lighted and the channels represented by the channel matrix are a current group of channels selected from among a plurality of channel groups;

displaying ~~a channel indicator of a base channel number~~, separate from the plurality of ~~definable~~ channel indicators, in the current group of channels as a channel group indicator ~~to be selected~~;

selecting the channel group indicator to switch the channel matrix among the groups of channels and to select the current group of channels;

moving a cursor over the channel indicators in the matrix to indicate a possible selection of a channel corresponding to one of the ~~definable~~ channel indicators in the current group of channels;

displaying status information, separate from the channel matrix and including a channel number and a plurality of program property indicators concerning the possibly selected channel, wherein the channel status section and the channel matrix are displayed concurrently;

responsive to the displayed status information, selecting the channel in the current channel group corresponding to the ~~definable~~ channel indicator at the position in the matrix indicated by ~~of the cursor on the matrix~~; and

tuning the television receiver to the channel number equal to the sum of adding the channel corresponding to the definable channel indicator at the position of the cursor on in the matrix to indicated by the cursor and the base channel number ~~to cause the television receiver to display the television program corresponding to the channel indicator.~~

12. (Previously Presented) A method in accordance with claim 11, further including the steps of:

prompting a viewer to select the features of the programs;

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displaying the channel group indicator to represent the one group of channels in which all channel indicators in the one group of channels that have at least one of the selected features are highlighted.

13. (Currently Amended) A method in accordance with claim 12 further wherein the step of highlighting the channel indicators for the programs having the viewer selected features includes the step of displaying the highlighted channel indicators in a different color than other channel indicators in the channel matrix.

14. (Currently Amended) A method in accordance with claim 13 further including the steps of:

displaying a feature selection portion including a plurality of features representing respectively different types of programs and at least one feature representing a function that may be performed on the channels represented by the channel matrix and prompting a viewer to select at least one program type or at least one function as the selected features; and

highlighting the channel indicators in the current group of channels corresponding to channels having the programs with the selected program types and displaying, in the status information, results of applying the at least one selected function to the possibly selected channel.

15. (Previously Presented) A method in accordance with claim 14 where the at least one function includes determining a V-Chip rating for the possibly selected channel.

16. (Currently Amended) Apparatus for implementing a display interface having a group of channels for tuning a television receiver, said apparatus comprising:

means for displaying a channel matrix having n columns and m rows for displaying ~~definable~~ channel indicators for at most n x m channels, the channel matrix including entries for both available and unavailable channels, where n and m are positive integers greater than 2, each ~~definable~~ channel indicator corresponding to a respectively different position in the matrix wherein channel indicators corresponding to channels having programs with viewer selected features are highlighted and the channels represented by the channel matrix are a current group of channels selected from among a plurality of channel groups;

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channel group selection means, separate from the plurality of definable-channel indicators, for switching the channel matrix among the groups of channels to select a current group of channels and for displaying a channel indicator of a base channel number in the current group of channels;

means for moving a cursor over the definable-channel indicators in the matrix to indicate a possible selection of a channel corresponding to one of the definable-channel indicators;

means for displaying status information, separate from the channel matrix, and including a channel number and a plurality of program property indicators concerning the possibly selected channel, wherein the channel status section and the channel matrix are displayed concurrently; and

means, responsive to the displayed status information, for indicating a selection of the channel indicator corresponding to the possibly selected channel and for tuning the television receiver to the channel number equal to the sum of adding the channel indicator at the position in the matrix indicated by the cursor corresponding to the possibly selected channel and the base channel number to tune the television receiver to receive the program corresponding to the selected channel indicator.

17. (Currently Amended) A computer readable carrier including a computer program that controls a computer to implement a display interface having a group of channels for tuning a television receiver, the computer program causing the computer to perform the steps of:

displaying a channel matrix having n columns and m rows for displaying definable channel indicators for at most n x m channels, the channel matrix including entries for both available and unavailable channels, where n and m are positive integers greater than 2, each definable-channel indicator corresponding to a respectively different position in the matrix, wherein channel indicators corresponding to channels having programs with viewer selected features are highlighted and the channels represented by the channel matrix are a current group of channels selected from among a plurality of channel groups;

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displaying a ~~channel indicator of a base channel number~~, separate from the plurality of ~~definable~~ channel indicators, in the current group of channels as a channel group indicator ~~to be selected~~;

selecting the channel group indicator to switch the channel matrix among the groups of channels and to select the current group of channels;

moving a cursor over the channel indicators in the matrix to indicate a possible selection of a channel corresponding to one of the channel indicators;

displaying status information, separate from the channel matrix and including a channel number and a plurality of program property indicators concerning the possibly selected channel, wherein the channel status section and the channel matrix are displayed concurrently;  
and

responsive to the displayed status information, selecting the channel indicator corresponding to the possibly selected channel; and

tuning the television receiver to the channel number equal to the sum of adding the possibly selected channel indicator at the position in the matrix indicated by the cursor to and the base channel number to cause the television receiver to display the television program corresponding to the selected channel indicator.

18. (Currently Amended) A display interface in accordance with claim 1, wherein the channel status section further includes a brief summary of a program on a television channel corresponding to the indicator at the position ~~of the cursor on~~ in the matrix indicated by the cursor.

19. (Currently Amended) A display interface in accordance with claim 1, wherein the channel status section further includes a channel logo of a television channel corresponding to the indicator at the position ~~of the cursor on~~ in the matrix indicated by the cursor.